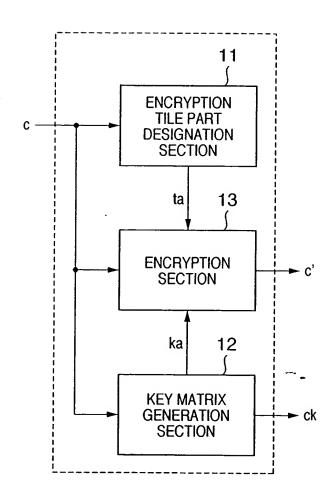
3

FIG. 1



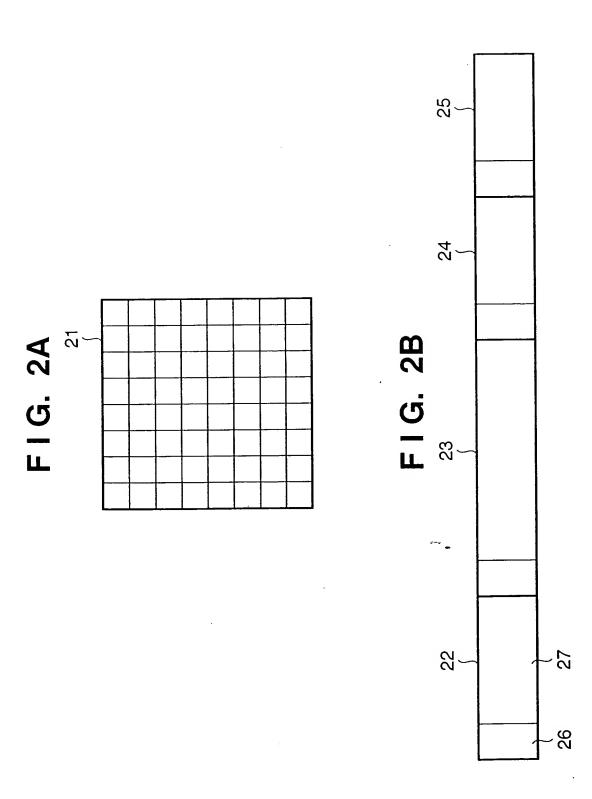


FIG. 3A

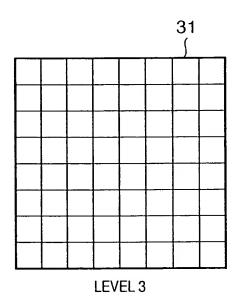


FIG. 3B

			32 ∫
0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15

LEVEL 2

FIG. 3C

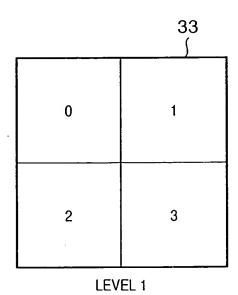
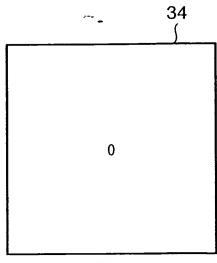
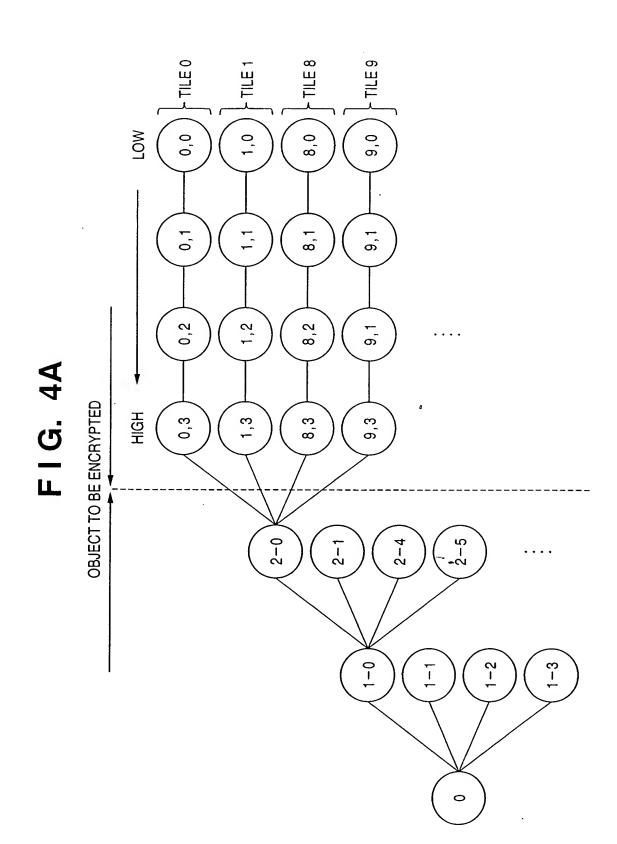


FIG. 3D



LEVEL 0



5/18 0-0-0-1(0)0-0-0-2(0) 0-0-0-3(0)NON 0-0-0-0(1)0-0-0-2(1)0-0-0-3(1)0-0-0-1(1) FREQUENCY COMPONENT 0-0-0-2(2) 0-0-0-0(2)0-0-0-1(2)0-0-0-3(2)0-0-0-2(3)0-0-0-3(3)0-0-0-0(3)0 - 0 - 0 - 1(3)표 0-0-3 0 - 0 - 20 - 0 - 10-2 0-3 0-0 0-1 0

FIG. 5

TILE INDEX	MINIMUM VALUE OF TILE PART INDEX TO BE ENCRYPTED
0	0
1	2
3	3
4	1
5	0
· ·	
62	3
63	1_

FIG. 6

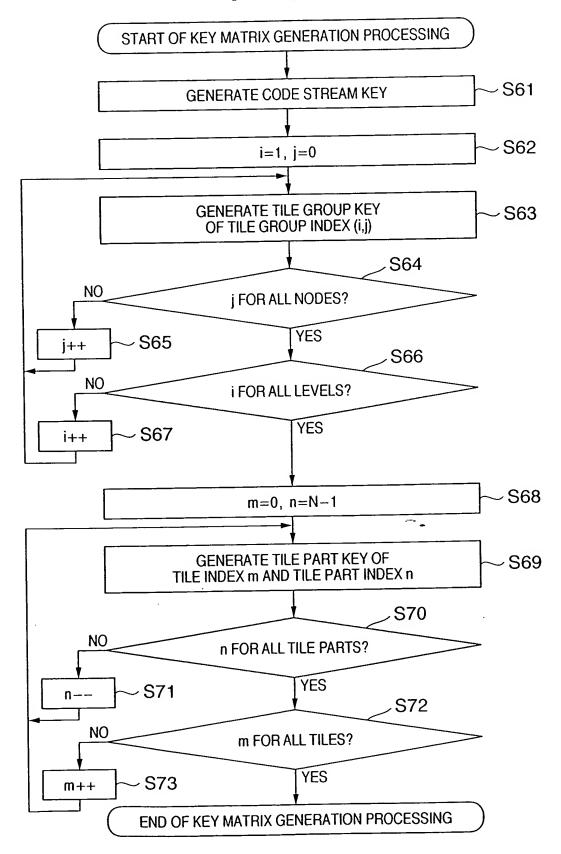


FIG. 7

	0	1	2	3	4	5
0						
1						_
3						
4						
5						
:						
62						
63						

FIG. 8

		$\overline{}$			_	,
	0	1	2	3	4	5
0	1	1	1	1	1	1
1	0	1	1	1	2	2
3	0	0	0	1	1	2
4	0	1	1	1	1	2
. 5	1	1	1	1	2	2
:	:	÷	:	:	:	:
62	0	0	0	1	1	2
63	0	1	1	1	~ ~	2

FIG. 9

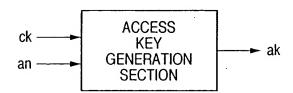


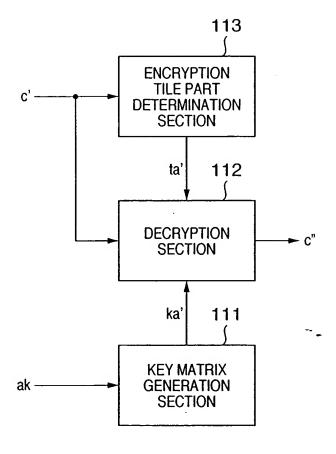
FIG. 10

ACCESS KEY VALUE

INDEX CORRESPONDING TO ACCESS KEY VALUE

INFORMATION REPRESENTING TILE PART INDEX OR TILE GROUP INDEX

FIG. 11



13/18 FIG. 12 START OF KEY MATRIX GENERATION PROCESSING S121 NO TILE GROUP INDEX? YES INITIALIZE i AND j S122 GENERATE TILE GROUP KEY OF TILE GROUP INDEX (i,j) S123 S124 NO j FOR ALL NODES? YES S125 j++ S126 NO i FOR ALL LEVELS? YES S127 i++ S128 m=0, n=0**GENERATE TILE PART KEY OF** S129 TILE INDEX m AND TILE PART INDEX n S130 NO n FOR ALL TILE PARTS? YES S131 n++S132 NO m FOR ALL TILES? YES S133 m++END OF KEY MATRIX GENERATION PROCESSING

FIG. 13

	0	1	2	3	4	5
0	1	1	1	1	1	1
1	0	0	1	1	2	2
2	0	0	0	1	1	2
3	0	1	1	1	1	2
4	1	1	1	1	2	2
:	:	÷	·	:	:	:
62	0	0	0	1	1 -	2
63	0	1	1	1	2 -	2

FIG. 14

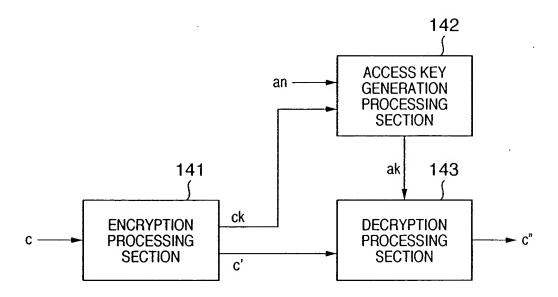


FIG. 15

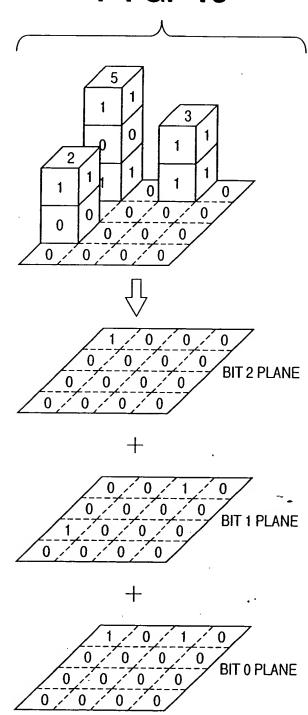
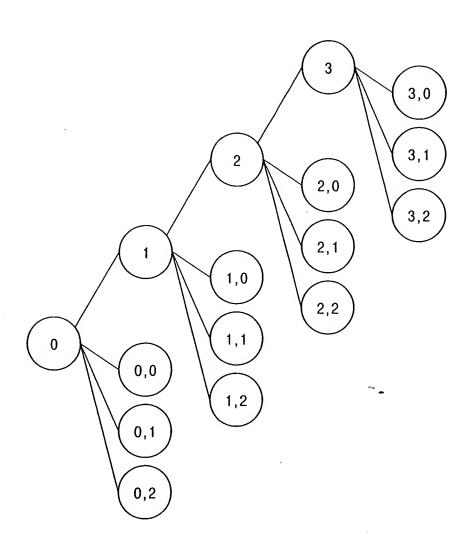


FIG. 16



. 12

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FIG. 17

